

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (currently amended) A method for the high-pressure filling of a pressure vessel adapted for an airbag system with a gas or gas mixture, in which comprising:

cooling and filling the pressure vessel is cooled and filled with at least one gas at a temperature above [[the]] a boiling temperature of the gas, [[is]] the pressure vessel being closed in the cooled state and a pressure of more than 300 bar is produced in the filled and closed pressure vessel by warming the gas or gas mixture, wherein determination and monitoring of a filling quantity during the filling operation are effected manometrically.

2. (canceled)

3. (currently amended) The method as claimed in claim 1, characterized in that wherein the warming of the gas is effected by active heating or by temperature equalization to room temperature, ambient temperature, a temperature above 0°C or another temperature.

4. (currently amended) The method as claimed in claim 1,
~~characterized in that~~ wherein a pure gas with a boiling
temperature of less than minus 50°C or a gas mixture whose
highest-boiling gas component has a boiling temperature of less
than minus 50°C is used for filling.

5. (currently amended) The method as claimed in claim 1,
~~characterized in that~~ wherein the filling of the pressure vessel
takes place at a temperature of at least minus 50°C or below.

6. (currently amended) The method as claimed in claim 1,
~~characterized in that~~ wherein the filling of the pressure vessel
takes place at constant or substantially constant temperature.

7. (currently amended) The method as claimed in claim 1,
~~characterized in that~~ wherein a cooled pressure vessel is used
during the filling of the pressure vessel, the cooling being
effected by means of a refrigeration bath, a cooling block, a
cold gas, cold solid particles or other refrigerants or a cooling
device which can be thermostated.

8. (canceled)

9. (currently amended) The method as claimed in claim 1,
~~characterized in that~~ wherein during the filling of the pressure

vessel the pressure vessel is connected to a compressed-gas source, the compressed-gas source being at a temperature which is above the temperature of the pressure vessel.

10. (currently amended) The method as claimed in claim 1, ~~characterized in that~~ wherein during the filling of the pressure vessel the pressure vessel is connected to a compressed-gas source, and the temperature of pressure vessel and compressed-gas source differ by at least 50°C and/or the temperature of the gas or gas mixture in the pressure vessel and compressed-gas source differ by at least 50°C.

11. (currently amended) The method as claimed in claim 1, ~~characterized in that~~ wherein the pressure vessel is filled with a gas mixture by filling with a previously produced gas mixture or by successive filling with the gas components of the gas mixture that is to be produced.

12. (currently amended) The method as claimed in claim 1, ~~characterized in that~~ wherein the filling of the pressure vessel is carried out with a pressurized gas or gas mixture.

13. (currently amended) The method as claimed in claim 1, ~~characterized in that~~ wherein the filling of the pressure vessel takes place at a pressure of at least 10 bar absolute.

14. (currently amended) The method as claimed in claim 1,
~~characterized in that~~ wherein the filling of the pressure vessel
takes place at a pressure in the range from 50 to 400 bar
absolute.

15. (currently amended) The method as claimed in claim 1,
~~characterized in that~~ wherein the filling of the pressure vessel
is carried out using a precooled gas or gas mixture.

16. (currently amended) The method as claimed in claim 1,
~~characterized in that~~ wherein the gas or gas mixture is precooled
to the filling temperature.

17. (currently amended) The method as claimed in claim 1,
~~characterized in that~~ wherein a pressurized refrigerant is used
for the cooling, or the temperature is set, controlled or
regulated during cooling by the action of pressure.

18. (canceled)

19. (currently amended) The method as claimed in claim 1,
where use of a gas or gas mixture with a boiling temperature at a
standard pressure of less than minus 200°C [[for]] is maintained

during the filling of the pressure vessel ~~cooled pressure vessels~~
~~of airbag systems.~~

20. (currently amended) The [[use]] method as claimed in claim 19, ~~characterized in that~~ wherein a gas or gas mixture containing at least 50% by volume of hydrogen or helium is used.

21. (canceled)

22. (new) A method for the high-pressure filling of an airbag gas generator, comprising:

cooling and filling the airbag gas generator with at least one gas at a temperature above a boiling temperature of the gas, the airbag gas generator being closed in the cooled state and a pressure of more than 300 bar is produced in the filled and closed airbag gas generator by warming the gas or gas mixture, wherein determination and monitoring of a filling quantity during the filling operation are effected manometrically.